

National Health & Nutrition Examination Survey

1999-2006
Survey Content



U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES
Centers for Disease Control and Prevention
National Center for Health Statistics





ACRONYMS AND ABBREVIATIONS USED IN THE NATIONAL HEALTH AND NUTRITION EXAMINATION SURVEY (NHANES)

ACASI	Audio computer-assisted self interview
ADHD	Attention deficit hyperactivity disorder
BV	Bacterial vaginosis
CAPI	Computer-assisted personal interview
CD4	T lymphocyte helper cells
CDISC	National Institute for Mental Health's Computerized Diagnostic Interview Schedule for Children
CIDI	World Health Organization's Composite International Diagnostic Interview
CV Fitness	Cardiovascular fitness
DXA	Dual energy x-ray absorptiometry
FSH/LH	Follicle stimulating hormone/Luteinizing hormone
HDL	High density lipoprotein
HPV	Human papillomavirus
LDL	Low density lipoprotein
MEC	Mobile examination center
MRSA	Methicillin resistant staphylococcus aureus
NTX	N-telopeptides of bone type I collagen
PAH	Polyaromatic Hydrocarbons
PSA	Prostate Specific Antigen
Qx	Questions
RBC	Red Blood Cell
SPs	Survey Participants
TH	Thyroxin
TIBC	Total iron binding capacity
TSH	Thyroid stimulating hormone
VOC	Volatile organic compounds
WBC/DNA	White Blood Cells/ Deoxyribonucleic acid





EXAMINATION COMPONENT MATRIX OF THE NATIONAL HEALTH AND NUTRITION EXAMINATION SURVEY (NHANES) 1999-2006

Component	Age Range	1999	2000	2001	2002	2003	2004	2005	2006
Audiometry	1/2 sample 20-69 years *							Age 2-19 and 70+ yrs	
Balance	1/2 sample 40-69 years			Note A					
Bioelectrical Impedance Analysis	8-49 years								
Body Composition-DXA									
Total Body DXA	8 years and older *	Note B						Age 8-69 years	
Hip & Spine DXA	8 years and older								
Body Measurements	All ages								
CV Fitness	12-49 years							p.m. participants only	
Dermatology	20-59 years								
Dietary	All ages				Note C				
Food Frequency	2 years and older								
Hair Mercury	1-5 years, Females 16-49								
Lower Extremity disease									
Peripheral neuropathy	40 years and older								
Peripheral vascular disease	40 years and older								
MEC Interview									
CAPI	12 years and older								
Alcohol use	20 years and older								
Bowel History	20 years and older								
Current health status	12 years and older								
Depression Screener	12 years and older								
Kidney/uro health	20 years and older								
Physical activity	12-15 years								

* Except where noted otherwise.

Note A: Increased to full sample, 40 years and older.

Note B: The age range for females in 1999 was 18 years and older.

Note C: New interview system. All participants asked for 2nd recall by phone.



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EXAMINATION COMPONENT MATRIX OF THE NATIONAL HEALTH AND NUTRITION EXAMINATION SURVEY (NHANES) 1999-2006

Component	Age Range	1999	2000	2001	2002	2003	2004	2005	2006
Reproductive health	12 years and older								
Tobacco use	20 years and older								
Weight History	8-15 years								
ACASI	12 years and older								
Alcohol use	12-19 years								
Conduct disorders	12-19 years								
Food Security	12-15 years								
Drug use	12-59 years								
Sexual behavior	14-59 years								
Tobacco use	12-19 years								
Urologic health PSA	Males 20 and older								
Mental Health	8-39 years								
CIDI	1/2 sample 20-39 years								
Generalized Anxiety	1/2 sample 20-39 years								
Depression	1/2 sample 20-39 years								
Panic disorder	1/2 sample 20-39 years								
CDISC	8-19 years								
Eating disorders	8-19 years								
Depression	8-19 years								
Panic and anxiety	8-19 years								
Parent CDISC	Parent of 8-15 years								
ADHD	Parent of 8-15 years								
Conduct disorders	Parent of 8-15 years								
Depression	Parent of 8-15 years								



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Component	Age Range	1999	2000	2001	2002	2003	2004	2005	2006
Eating disorders	Parent of 8-15 years								
Elimination disorders	Parent of 8-11 years								
Ophthalmology									
Retinal photo	40 years and older								
Visual Fields	40 years and older								
Oral Health								Note I	
Basic screening exam	5 years and older								
Coronal caries	2 years and older				Note E				
Dental sealants	2-34 years								
Exclusion qx	13 years and older								
Flourosis	6-49 years								
Incisal trauma	10-29 years								
Orofacial pain qx	10-69 years								
Orofacial pain exam	13-69 years								
Periodontitis									
Loss of attachment	18 years and older			Note G					
Gingival bleeding	12-49 years								
Periodontal bleeding	13 years and older								
Referral/follow-up	2 years and older*			Note H				5 years and older	
Root caries	18 years and older								
Saliva	40 years and older		Note F						
Tooth count	2 years and older *			Note D				5 years and older	

* Except where noted otherwise.

Note D: Added counting residual dental roots.

Note E: Added identifying caries status on residual dental roots.

Note F: Discontinued in the mid year of 2000.

Note G: Age range changed to 13 years and older; LOA measurement positions modified, a third site added.

Note H: Added recommendations to seek care for removable dental prosthetics.

Note I: Oral health component changed from comprehensive dentist based exam to a simplified oral health screening on ages 5 years and older.



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EXAMINATION COMPONENT MATRIX OF THE NATIONAL HEALTH AND NUTRITION EXAMINATION SURVEY (NHANES) 1999-2006

Component	Age Range	1999	2000	2001	2002	2003	2004	2005	2006
Physical Activity Monitor	6 years and older								
Physical Functioning									
Isokinetic	50 years and older								
20 ft timed walk	50 years and older								
8 ft timed walk	50 years and older								
Physician Exam	All ages								
Blood pressure	8 years and older								
Tuberculosis	1 year and older								
Vision	12 years and older								



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LABORATORY COMPONENT MATRIX OF THE NATIONAL HEALTH AND NUTRITION EXAMINATION SURVEY (NHANES) 1999-2006

Lab Test	Age Range	1999	2000	2001	2002	2003	2004	2005	2006
Acrylamide	3 years and older								
Albumin (urine)	6 years and older								
Apolipoprotein (B)	1/2 subsample 12 years and older							a.m. participants only	
Arsenic (urine)	1/3 sample 6 years and older								
Bone alkaline phosphatase	8 years and older *					Age 8-49 years old			
Brominated flame retardants (BFR)	1/3 subsample 12 years and older								
BV/Trichomonas	Females 14-49 years								
Cadmium (blood)	1 year and older								
CD4/CD8	18-49 years/ HIV+ & controls								
Chemistry panel	12 years and older								
Chlamydia (urine)	14-39 years								
Complete Blood Count	1 year and older								
Cotinine	3 years and older								
C-reactive protein	3 years and older *					Age 1 year and older			
Creatinine (urine)	6 years and older								
Cryptosporidium	6-49 years								
Dust allergens	1 year and older								
Erythrocyte Protoporphyrin	1 year and older*					Age 3-5 years and females 12-49 years			
Ferritin	1 year and older*					Age 1-5 years and females 12-49 years			
Fibrinogen	40 years and older								
Folate, RBC	3 years and older *					Age 1 year and older			
Folate, serum	3 years and older *					Age 1 year and older			
FSH/LH	Females 35-60 years								

* Except where noted otherwise.



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LABORATORY COMPONENT MATRIX OF THE NATIONAL HEALTH AND NUTRITION EXAMINATION SURVEY (NHANES) 1999-2006

Lab Test	Age Range	1999	2000	2001	2002	2003	2004	2005	2006
Glucose, plasma	Subsample 12 years and older								
Glucose Tolerance Test (OGTT)	12 years and older							a.m. participants only	
Glycohemoglobin	12 years and older								
Gonorrhea (urine)	14-39 years								
Halogenated phenolic compounds	1/3 sample 6 years and older								
Helicobacter pylori	3 years and older								
Hepatitis antiHBs	2-5 years								
Hepatitis A, B, C, D	6 years and older								
Hepatitis C Follow-up	All SPs with Hep C								
Herpes 1 and 2 antibody	14-49 years								
HIV antibody	18-49 years								
Homocysteine	3 years and older *							Age 20 years and older	
Human Paillomavirus (HPV)	14-59 years								
HPV swab	Females 14-59 years								
Immunoglobulin E	1 year and older								
Insulin/c-peptide	Subsample 12 years and older							Insulin only	
Iodine (urine)	1/3 sample 6 years and older								
Iron	1 year and older					Note B		Note C	
Latex	12-59 years								
Lipoprotein (a) (Lp(a))	Subsample 12 years and older								
Lead (blood)	1 year and older								
Lead dust	Households with 1-5 year olds								
Measles/Varicella/Rubella	6-49 years								

* Except where noted otherwise.

Note B: Age range changed to 3-5 years and females 12-49 years.

Note C: Age range changed to 3-5years and females 12-59 years.



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Lab Test	Age Range	1999	2000	2001	2002	2003	2004	2005	2006
Metals (urine)	1/3 sample 6 years and older								
Mercury (hair)	1-5 years, females 16-49 years								
Mercury (blood)	1-5 years, females 16-49 years *					Age 1 year and older			
Mercury (urine)	Females 16-49 years*					1/3 sample 6 years and older			
Methylmalonic acid	3 years and older *							Age 20 years and older	
MRSA	1 year and older								
Nonpersistent pesticides	½ of 6-11 years, ¼ of 12-59 years*		Note D			1/3 sample 6 years and older			
N-Telopeptides (NTX)	8 years and older								
Parathyroid Hormone (PTH)	6 years and older								
Perchlorate (urine)	1/2 subsample 12 years and older								
Perchlorate (water)	1/2 subsample 12 years and older								
Perfluorinated compounds	1/3 subsample 12 years and older								
Persistent organochlorines	1/3 sample 6 years and older								
Phytoestrogens	1/3 sample 6 years and older								
Polyaromatic Hydrocarbons (PAH)	1/3 sample 6 years and older								
Prostate specific antigen (PSA)	Males 40 years and older								
PSA Follow Up	Males 40 and older with high results								
Phthalates	1/3 sample 6 years and older					Additional 3 Phthalates			
Selenium	3-11 years *					Age 40 years and older			
Surplus sera	6 years and older					Reduced # of vials			
Syphilis	18-49 years								
TIBC	1 year and older *					Note B		Note C	

* Except where noted otherwise.

Note B: Age range changed to 3-5 years and females 12-49 years.

Note C: Age range changed to 3-5 years and females 12-59 years.

Note D: Age range changed to 1/2 sample 6-11 years and 1/3 sample 12 years and older.



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LABORATORY COMPONENT MATRIX OF THE NATIONAL HEALTH AND NUTRITION EXAMINATION SURVEY (NHANES) 1999-2006

Lab Test	Age Range	1999	2000	2001	2002	2003	2004	2005	2006	
Total cholesterol										
HDL cholesterol	3 years and older *								Age 6 years and older	
LDL cholesterol	3 years and older *								Age 6 years and older	
Toxoplasma	6-49 years	Note A								
Trans fatty acids	1/3 sample 12 years and older									
Transferrin receptor	1-5 years, females 12-49 years									
Triglycerides	Subsample 3 years and older *								Age 12 years and older	
TSH/TH	1/3 sample 12 years and older									
Vitamin A/E/carotenoids	3 years and older *						Age 6 years and older			
Vitamin B6	1 year and older									
Vitamin B12	3 years and older *						Age 1 year and older			
Vitamin C	6 years and older									
Vitamin D	6 years and older*						Age 1 year and older			
VOC badge	Subsample 20-59 years									
VOC (blood)	Subsample 20-59 years *								Age 12 years and older	
VOC exposure monitor	Subsample 20-59 years									
White Blood Cell/DNA	20 years and older									

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Note A: Analyzed retrospectively from Surplus Sera 1999-2000.



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QUESTIONNAIRE COMPONENT MATRIX OF THE NATIONAL HEALTH AND NUTRITION EXAMINATION SURVEY (NHANES) 1999-2006

Component	Age Range	1999	2000	2001	2002	2003	2004	2005	2006
SP Questionnaire									
Acculturation (ACQ)	12 years and older								
Allergy (ARQ)	1 year and older								
Audiometry (AUQ)	20 years and older*							Age 1 year and older	
Balance (BAQ)	40 years and older								
Blood Pressure (BPQ)	16 years and older								
Cardiovascular Disease (CDQ)	40 years and older								
Demographics (DMQ)	0 years and older								
Dermatology (DEQ)	6 years and older*							Age 20-59 years	
Diabetes (DIQ)	1 year and older								
Diet Behavior and Nutrition (DBQ)	0 years and older								
Dietary Supplements & Medications (DSQ)	0 years and older								
Digit Symbol Substitution Test (CFQ)	60 years and older								
Early Childhood (ECQ)	0 - 15 years								
Health Insurance (HIQ)	0 years and older	Found in Family Questionnaire							
Hospital Utilization & Access to Care (HUQ)	0 years and older								
Immunization (IMQ)	0 years and older								
Introduction & Verification (IVQ)	0 years and older								
Kidney Conditions (KIQ)	20 years and older								
Medical Conditions (MCQ)	1 year and older								
Miscellaneous Pain (MPQ)	20 years and older								
Occupation (OCQ)	12 years and older*							Age 16 years and older	
Oral Health (OHQ)	2 years and older*							Age 18 years and older	
Osteoporosis (OSQ)	20 years and older								

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QUESTIONNAIRE COMPONENT MATRIX OF THE NATIONAL HEALTH AND NUTRITION EXAMINATION SURVEY (NHANES) 1999-2006

Component	Age Range	1999	2000	2001	2002	2003	2004	2005	2006
Physical Activity & Physical Fitness (PAQ)	2 years and older								
Physical Functioning (PFQ)	1 year and older								
Respiratory Health & Disease (RDQ)	1 year and older								
Respondent Selection (RIQ)	0 years and older								
Sleep Disorders (SLQ)	16 years and older								
Smoking and Tobacco Use (SMQ)	20 years and older								
Social Support (SSQ)	60 years and older*							Age 40 years and older	
Tuberculosis (TBQ)	1 year and older								
Vision (VIQ)	20 years and older*							Age 12 years and older	
Weight History (WHQ)	16 years and older								
Family Questionnaire									
Demographic Background/Occupation (DMQ)	0 years and older								
Food Security (FSQ)	0 years and older								
Health Insurance (HIQ)	0 years and older							Found in SP Quest	
Housing Characteristics (HOQ)	0 years and older								
Income (INQ)	0 years and older								
Pesticide Use (PUQ)	0 years and older								
Smoking (SMQ)	0 years and older								
Tracking and Tracing (TTQ)	0 years and older								

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